| <br> | Clair |  |
|------|-------|--|
|      |       |  |

| Application/Control No |
|------------------------|
|------------------------|

09/682,161

Examiner

Robert W. Morgan

Applicant(s)/Patent under Reexamination

HETZEL ET AL.

Art Unit

3626

| √ | Rejected |
|---|----------|
| = | Allowed  |

| ı | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   | Postricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla   | aim      |          |          |          | D             | ate       |           |              |           | _ | Cla                    | im          |           |                |           | Dε            | te           |  |          |        | С  | laim     |          |                 |          | Ç        | ate      | >        |          | _        |          |
|-------|----------|----------|----------|----------|---------------|-----------|-----------|--------------|-----------|---|------------------------|-------------|-----------|----------------|-----------|---------------|--------------|--|----------|--------|--|----------|----------|-----------------|----------|----------|----------|----------|----------|----------|----------|
| _     | <u>~</u> | 1        |          |          |               |           |           |              |           |   | _                      | <del></del> |           |                |           |               |              |  |          |        | _  | <u>a</u> |          |                 |          | -        |          |          |          |          |          |
| Final | Original | 19/0/    |          |          |               |           |           | - 1          |           |   | Final                  | Original    |           |                |           |               |              |  |          |        | Final  | Original |          |                 |          | - {      |          |          |          |          |          |
| ίΞ    | ٦        | 10/      | 1        |          |               |           |           |              | - 1       |   | II.                    | ji          | il        |                |           |               |              |  |          |        | ΙĒ   | Į.       |          |                 |          |          |          | l        |          |          | -        |
|       |          | 9        |          |          | $\perp$       | $\perp$   | $\perp$   | $\bot$       |           |   |                        |             | Ш         |                |           | $\bot$        | 1.           | <u> </u>   |          | _      |  | 1        | Ш        | Ш               | $\bot$   | $\perp$  |          |          |          | $\perp$  | ╝        |
|       | 1        | 1        |          |          |               | $\perp$   | _         | _            | $\Box$    |   |                        | 51          | Ш         | _              |           | ┵             |              | $oxed{oxed}$                                     | oxdot    | _      |  | 101      |          | Ш               |          | $\Box$   |          |          |          |          | _        |
|       | 2        | V        |          |          |               |           |           |              |           |   |                        | 52          |           |                |           |               |              |  |          |        |  | 102      |          |                 |          |          |          |          |          |          | $\Box$   |
|       | 3        | <b>V</b> |          |          |               |           |           | _            |           |   |                        | 53          |           |                |           |               | L            |  |          |        |  | 103      |          |                 |          |          |          |          |          |          | $\Box$   |
|       | 4        | 1        |          |          |               |           |           |              |           |   |                        | 54          |           |                |           |               |              |  |          |        |  | 104      |          |                 |          |          |          |          | _ ]      |          |          |
|       | 5        | 1        |          |          |               |           |           |              |           |   |                        | 55          |           |                |           |               |              |  |          |        |  | 105      |          |                 |          |          |          |          |          |          |          |
|       |          | V        |          |          |               |           |           |              |           |   |                        | 56          |           |                |           |               |              |  |          |        |  | 106      |          |                 |          |          |          |          |          |          |          |
|       | 7        | 1        |          |          |               |           |           |              |           |   |                        | 57          |           |                |           |               |              |  |          |        |  | 107      |          |                 |          |          |          |          |          |          |          |
|       | 8        | <u> </u> |          |          |               |           |           |              |           |   |                        | 58          |           |                |           |               |              |  |          |        |  | 108      |          |                 |          |          |          |          |          |          |          |
|       | 9        |          |          |          |               |           | $\Box$    |              |           |   |                        | 59          |           |                |           |               |              |  |          |        |  | 109      |          |                 |          |          |          |          |          |          | $\Box$   |
|       | 10       | <u>.</u> |          |          |               |           |           |              |           |   |                        | 60          |           |                |           |               |              |  |          | _]!!!! |  | 110      |          |                 |          |          |          |          |          |          |          |
|       | 11       |          |          |          |               |           |           |              |           |   |                        | 61          |           |                |           |               |              |  |          |        |  | 111      |          |                 |          |          |          |          |          |          |          |
|       | 12       |          |          |          | $oxed{T}$     | $\Box$    |           |              |           |   |                        | 62          |           | $\Box$         | $\Box$    |               | $oxed{oxed}$ |  |          |        |  | 112      |          |                 |          | $\Box$   | J        |          |          |          | $\Box$   |
|       | 13       |          |          |          |               | $_{ m I}$ |           |              |           |   |                        | 63          |           |                | T         |               | floor        |  |          |        |  | 113      |          |                 |          |          |          |          |          | T        | $\Box$   |
|       | 14       |          |          |          |               | $\Box$    | $\Box$    |              |           |   |                        | 64          |           |                | T         |               |              |  |          | 7      |  | 114      |          |                 |          |          |          |          | 1        |          | ٦        |
|       | 15       |          |          |          |               | T         |           |              |           |   |                        | 65          |           |                |           |               |              |  |          | 7      |  | 115      |          |                 |          | $\Box$   |          |          |          | $\top$   | ヿ        |
|       | 16       |          |          |          | $\neg$        | T         | $\exists$ |              |           |   |                        | 66          |           |                |           | $\top$        | T            | T  |          | 7      |  | 116      |          |                 |          |          | $\neg$   |          |          | $\neg$   | ヿ        |
|       | 17       |          |          |          |               |           |           |              |           |   |                        | 67          |           | $\neg$         | $\neg$    | $\neg   \neg$ |              | $\top$   |          | 7      |  | 117      | П        |                 | $\neg$   | 寸        |          | 一        | $\Box$   | $\neg$   | ヿ        |
|       | 18       | Γ        |          |          | $\dashv$      | 寸         | $\dashv$  | $\dashv$     | 一         |   |                        | 68          | $\Box$    | 7              | $\neg$    | 丁             | T            |  |          | 7      |  | 118      | П        |                 | $\dashv$ | 寸        | $\neg$   | $\neg$   | 寸        | $\neg$   | ヿ        |
|       | 19       |          |          |          | $\neg$        | $\dashv$  | $\exists$ | ヿ            | ヿ         |   |                        | 69          |           | ヿ              | $\exists$ | $\top$        | _            |  |          |        |  | 119      | П        |                 | 7        | ヿ        | $\neg$   | $\neg$   |          | 十        | ヿ        |
|       | 20       |          |          |          |               | 寸         | 寸         | ヿ            | ヿ         |   |                        | 70          | П         | $\neg$         | ┪         | ┪             | 1            | 1  |          | 7      |  | 120      | П        | $\neg$          | $\neg$   | ヿ        | 寸        |          |          | $\top$   | ヿ        |
|       | 21       |          |          |          |               | $\neg$    | $\neg$    |              | $\neg$    |   |                        | 71          | П         | 7              | 7         |               |              |  |          | 7      |  | 121      |          |                 |          | $\neg$   |          |          |          | $\top$   | ┑        |
|       | 22       |          |          |          |               | $\neg$    |           |              | $\neg$    |   |                        | 72          | П         | 寸              | _         | _             |              |  |          | 7      |  | 122      |          | $\Box$          |          | ┪        | 寸        |          | $\neg$   | $\top$   | ヿ        |
|       | 23       |          |          |          |               | $\neg$    | $\neg$    | $\neg$       | ヿ         |   |                        | 73          | П         | 寸              | 7         | _             | T            |  |          | 7::::  |  | 123      |          | T               | $\neg$   | 7        | T        |          |          | $\top$   | ヿ        |
|       | 24       |          |          |          |               |           |           |              |           |   |                        | 74          |           |                | $\neg$    | _             | 1            |  |          | 7      |  | 124      |          | П               | $\neg$   | 寸        | 寸        |          |          | す        | ヿ        |
|       | 25       |          |          | $\neg$   | $\top$        | ╅         | 寸         | 寸            | 寸         |   |                        | 75          | М         | $\dashv$       | $\dashv$  | $\top$        | _            | 1  |          | 7::::  | <b> </b>   | 125      | $\vdash$ |                 | _        | _        |          |          |          | $\top$   | ヿ        |
|       | 26       |          |          | $\dashv$ | $\neg$        | 7         | コ         | $\neg$       |           |   |                        | 76          | Н         | 寸              | $\top$    | 十             | $\top$       |  |          | 7::::  |  | 126      | П        | $\Box$          | $\neg$   | 寸        | T        | $\neg$   |          | $\top$   | ᅱ        |
|       | 27       |          |          | _        | $\neg$        | _         |           | $\neg$       |           |   |                        | 77          |           | T              | $\top$    | 1             | 1            |  |          | 7::::  |  | 127      |          | П               | _        |          | ᅥ        |          |          | -        | ┪        |
|       | 28       | $\vdash$ |          | $\neg$   | $\neg \vdash$ | $\dashv$  | 1         | $\neg$       | $\exists$ |   |                        | 78          | Н         | $\neg$         | $\top$    | +             | +            | 1-   | l.       | 7      | <b></b>  | 128      | $\vdash$ | _               | _        | 寸        | 一        | $\dashv$ | $\neg$   | $\dashv$ | ᅱ        |
|       | 29       |          |          | $\neg$   | _             | $\top$    | 寸         | $\neg$       | $\dashv$  |   |                        | 79          | П         | $\neg \dagger$ | _         | _             | +-           | <del>                                     </del> |          | ١      |  | 129      | т        | Н               | _        | $\neg$   | 一        | 一        | _        | -        | ᅱ        |
|       | 30       |          |          |          |               | $\neg$    | T         | ┪            | 寸         | _ |                        | 80          | П         | 寸.             | 十         | $\top$        | $\top$       | 1  |          | ١!!!!  |  | 130      | П        | $\Box$          | $\dashv$ | 寸        | _        | _        |          | $\neg$   | ᅥ        |
|       | 31       | _        |          | _        | _             | $\neg$    | T         |              |           |   |                        | 81          | П         |                | _         | +             | +            |  |          | ١      |  | 131      |          | Ħ               | 7        |          | 寸        |          | _        | 十        | ⊣        |
|       | 32       |          | $\vdash$ | _        | $\neg$        | $\dashv$  | 寸         | 一            | $\dashv$  |   |                        | 82          | H         | $\dashv$       | $\top$    | $\top$        | +            | T  |          | ⊣:::   |  | 132      | П        | H               | 十        | $\dashv$ | $\dashv$ | $\dashv$ | 寸        | +        | $\dashv$ |
|       | 33       | Г        | П        | $\dashv$ | $\dashv$      | $\dashv$  | 7         | _            |           |   |                        | 83          | Н         | $\dashv$       | $\top$    | $\top$        | T            | T  | $\vdash$ | 7      |  | 133      | П        | $\sqcap$        | 十        | $\dashv$ | 7        |          | $\dashv$ | $\top$   | $\dashv$ |
| ···   | 34       |          | $\Box$   | $\dashv$ | $\top$        | $\dashv$  | $\dashv$  | $\dashv$     | 1         |   |                        | 84          |           | _              | +         | +             | +            |  |          | 1      |  | 134      |          | H               | 十        | 寸        |          | 1        | 7        | $\top$   | ᆌ        |
|       | 35       |          | $\Box$   |          | $\dashv$      | $\dashv$  | 寸         | 寸            | 1         |   |                        | 85          | $\Box$    | $\neg$         | $\dashv$  | ┰             | _            | $\top$   | -        | 7::::  | <u> </u>   | 135      | П        | $\vdash$        | 一        | $\dashv$ | 一        | $\neg$   | $\dashv$ | $\top$   | $\dashv$ |
|       | 36       |          | $\vdash$ | $\dashv$ | $\neg$        | $\dashv$  | 寸         | 一            |           | - |                        | 86          | Н         | 十              | _         | _             | +-           | 1  |          | ١      | <u> </u>   | 136      |          |                 | $\dashv$ | 寸        | 寸        | $\dashv$ | 7        | +        | ヿ        |
|       | 37       |          |          | _        | _             | $\dashv$  | 寸         | $\dashv$     | 一         |   | $\vdash$               | 87          | Н         | $\dashv$       | 寸         | +             | +            |  | $\vdash$ | 7      | $\vdash$   | 137      | П        | $\vdash$        | $\dashv$ | $\dashv$ |          |          | $\dashv$ | $\top$   | ᅱ        |
|       | 38       | П        |          |          | 7             | 十         |           | 一            | 一         |   |                        | 88          | П         | $\dashv$       | $\top$    | $\top$        | $\top$       | T  |          | 7      |  | 138      | П        | $\sqcap$        | $\dashv$ |          | 寸        | 一        | $\dashv$ | $\top$   | ヿ        |
|       | 39       |          | $\Box$   | $\dashv$ |               | 7         | 寸         | 寸            |           |   |                        | 89          | $\square$ | $\dashv$       | $\top$    | 十             | $\top$       | T  |          | ١!!!   | <u> </u>   | 139      | П        | $\vdash \vdash$ | $\dashv$ | -        | 寸        | 寸        | $\dashv$ | $\top$   | ᅱ        |
|       | 40       |          |          | _        |               | 十         | 寸         | 一            | _         | _ |                        | 90          | Н         | 十              | $\top$    | +             | +            | T  |          | ۱      | $\vdash$   | 140      | Н        | $\vdash$        | $\dashv$ | $\dashv$ | _        | $\dashv$ | $\dashv$ | 十        | $\dashv$ |
|       | 41       |          | Н        | $\dashv$ | $\dashv$      | 十         | _         | _            | 1         |   |                        | 91          | $\vdash$  | _              | $\dashv$  |               | $\top$       | <del>                                     </del> | $\vdash$ | ١      | <del>                                     </del> | 141      | $\vdash$ | -               | $\dashv$ | $\dashv$ |          |          | _        | 十        | $\dashv$ |
|       | 42       |          | Н        | $\dashv$ | $\dashv$      | $\dashv$  | 寸         | 一            |           |   | $\vdash \vdash$        | 92          |           | -+             | $\dashv$  | +             | +-           | 1  | $\vdash$ | ١!!!   | <b></b> -  | 142      | П        | $\vdash$        | $\dashv$ | $\dashv$ |          |          |          | +        | ᅱ        |
|       | 43       |          |          | -        | _             | $\dashv$  | _         | $\dashv$     | $\dashv$  |   | $\vdash$               | 93          | $\vdash$  | $\dashv$       | $\dashv$  | +             | +            | $t^{-}$  |          | ١      | <u> </u>   | 143      | Н        | -               | _        | -        | - 1      | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
|       | 44       | Н        | $\vdash$ | $\dashv$ | $\dashv$      | +         | ┪         | $\dashv$     | $\dashv$  |   | $\vdash$               | 94          | H         | $\dashv$       | +         | +             | +            | +  | $\vdash$ | -      |  | 144      | Н        | $\vdash$        | -+       | $\dashv$ | -        | $\dashv$ | $\dashv$ | 十        | $\dashv$ |
|       | 45       |          | $\vdash$ | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$  | $\dashv$     | $\dashv$  | _ | $\vdash \vdash \vdash$ | 95          | $\vdash$  | $\dashv$       | +         | +             | +            | H  | $\vdash$ | -      | <u> </u>   | 145      | Н        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | $\dashv$ |
|       | 46       | Н        | $\vdash$ | -+       | $\dashv$      | $\dashv$  | 7         | $\dashv$     | $\dashv$  |   | $\vdash \vdash$        | 96          | $\vdash$  | -+             | $\dashv$  | +             | +            | T  | $\vdash$ | ⊣::::  | <del> </del>                                     | 146      | Н        | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | 十        | ᅱ        |
|       | 47       | Н        | $\vdash$ | -        | $\dashv$      | $\dashv$  | +         | +            | 7         |   |                        | 97          | Н         | 十              | 十         | 十             | +            | +-   | - -      | 1      | <u> </u>   | 147      | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$ | -        | +        | +        | 十        | $\dashv$ |
|       | 48       | $\vdash$ | $\vdash$ | $\dashv$ | $\dashv$      | $\dashv$  | +         | <del>-</del> | $\dashv$  |   | $\vdash$               | 98          |           | -              | +         | +             | +-           | +-   | $\vdash$ | -      | <del> </del>                                     | 148      | $\vdash$ | $\vdash \vdash$ | $\dashv$ |
|       | 49       | $\vdash$ | $\vdash$ | $\dashv$ | 十             | $\dashv$  | $\dashv$  | ᆉ            | $\dashv$  | _ |                        | 99          | $\vdash$  | -+             | $\dashv$  | +             | +            | +  | $\vdash$ | -      | <del></del>                                      | 149      | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | ┰        | $\dashv$ | $\dashv$ | $\dashv$ |
|       | 50       |          |          | $\dashv$ | $\dashv$      | +         | ┪         |              | $\dashv$  |   |                        | 100         | $\vdash$  | $\dashv$       | +         |               | ╫            | +  | $\vdash$ | -      | <u> </u>   | 150      | $\vdash$ | $\vdash$        | $\dashv$ | -        | 一        | $\dashv$ | $\dashv$ | +        | $\dashv$ |
|       |          | L        |          | 1        |               | L         |           | 1            |           |   | <br>L                  | 100         |           | - 1            | - 1       | - 1           | 1            | 1  | 1 I      | :::::  | 1  | 1 100    |          |                 | - 1      | - 1      | - 1      |          | - 1      | - 1      | - 1      |